IBM Personal System/2 Model P75 486

The megapower portable for professionals on the move

When your work as a business or technical professional calls for travel, take along the Personal System/2® Model P75 486. Whether you're working off-site for two days or two months, you'll be able to get things done as fast and efficiently as you do in your own office. That's because this top-of-the-line PS/2® portable offers i486™ processing power, 33 MHz speed, exceptional expandability, and much more.

"Much more" includes 8MB of high-speed memory, expandable to 16MB on the system board. It also includes built-in SCSI disk storage (160MB or 400MB) and support for multiple external SCSI devices as well. Built-in Extended Graphics Array (XGA) enhances performance. And with four available Micro Channel® expansion slots, there's plenty of room to add the special capabilities you need.

Besides these many powerful features, the P75 486 offers a full-size keyboard and an integrated, high-resolution gas plasma display. All this—and yet the P75 486 is amazingly compact. It's modeled after the same award-winning design as the PS/2 P70 386. So you can take it anywhere your job takes you.

And, for extra confidence and convenience, you can tote the P75 in an optional IBM PS/2 Travel Case. Made of tough, molded plastic, the case features a telescoping handle, is mounted on wheels, and easily fits beneath your seat or in the overhead compartment when you're traveling by air.

Model P75 486 at work

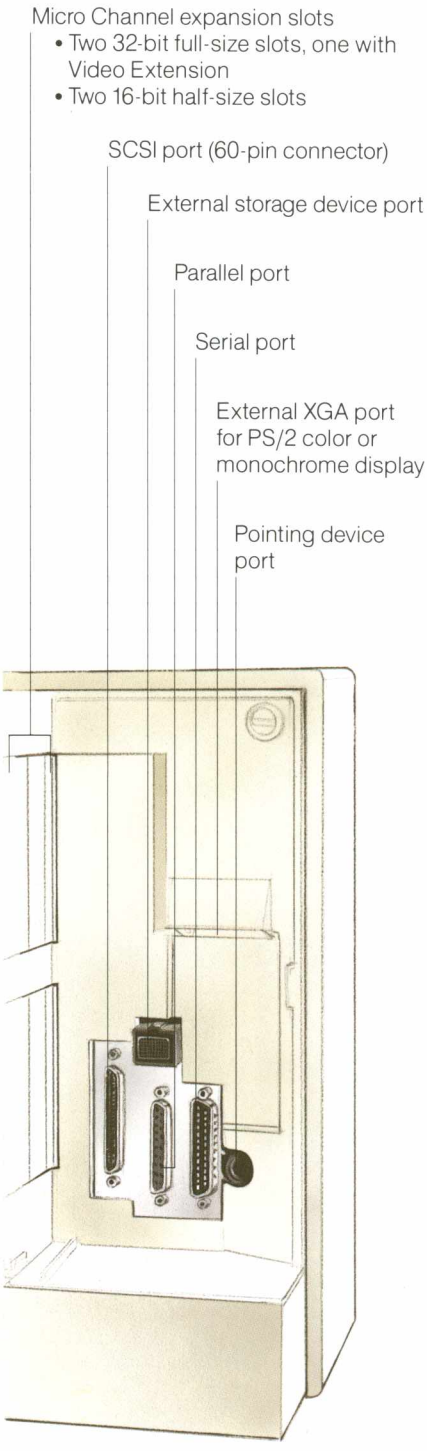
Here are some of the ways you can put Model P75 486 to work for you:

- Conduct audits, run geological surveys, supervise construction, build financial models anywhere AC power is available
- Make the P75 486 your portable technical workstation for engineering, architecture, science or any other technical field
- Attach a PS/2 color display and offer on-the-spot multimedia presentations at business shows, meetings or conventions
- Set up the P75 486 as a LAN server in a temporary work location to support an entire workgroup or department

IBM

Wide range of options[2]

	Part no.
Co-processors/processor upgrades	
• Wizard Adapter	34F3062
Storage devices	
• 5.25" 1.2MB External Diskette Drive	4869002
• 5.25" 360KB External Diskette Drive	4869001
• External CD-ROM Drive	3510001
• 6157 Streaming Tape Drive (60MB, 150MB)	6157001/6157002
• 3363 External Optical Disk Drive (-A11, -B01)	68X7946/63X4182
• External Storage Enclosure for SCSI Devices	3511003
• 80MB SCSI Fixed Disk Drive	6451045[3]
• 160MB SCSI Fixed Disk Drive	6451046[3]
• 320MB SCSI Fixed Disk Drive	6451108[3]
• 400MB SCSI Fixed Disk Drive	6451081[3]
Scanners	
• 3117 Scanner	3117010
• 3118 Scanners	3118010/3118020
• 3119 PageScanner	94X2410
Connectivity/communications	
• Token-Ring Network 16/4 Adapter/A	16F1133
• Token-Ring Network 16/4 Trace and Performance Adapter/A	74F5130
• Token-Ring Network Model P70 386 Adapter/A	39F9598
• Adapter/A for Ethernet Networks	6451091
• PC Network Baseband Adapter/A	1501223
• PC Network Adapter II/A	1501222
• PC Network Adapter II/A—Frequency 2	96X5647
• PC Network Adapter II/A—Frequency 3	96X5648
• Dual Async Adapter/A	6451013
• Realtime Interface Co-Processor (RIC) Multiport/2 and related features	09F1897[4]
• Realtime Interface Co-Processor Portmaster Adapter/A and related features	53F2601[4]
• X.25 Interface Co-Processor/2	16F1858
• 3270 Connection	74F3465
• Multi-Protocol Adapter/A	6451003
• 300/1200/2400 Internal Modem/A	94X1755
• 300/1200 Internal Modem/A	6450349
• Leased Line Modem	26F1862
• System 36/38™ W/S Emulation Adapter/A	69X6279
• Display Station Emulation Adapter/A	92X0743
• System/370™ Channel Emulation Adapter/A	06F3160
Graphics and multimedia	
• M-Audio Capture/Playback Adapter/A	87F9909
• Video Capture Adapter/A	34F2785
• M-Motion Video Adapter/A	34F3087
• Image Adapter/A Series	44F9914[4]
• Display Adapter 8514/A	1887972
Other features	
• Micro Channel SCSI Adapter	6451109
• Micro Channel SCSI Adapter with Cache	6451110
• Mouse	6450350
• Screen Reader™	6450602
• IBM PS/2 Travel Case	79F3205
• 8573 Keyboard Extension Cable	79F3210

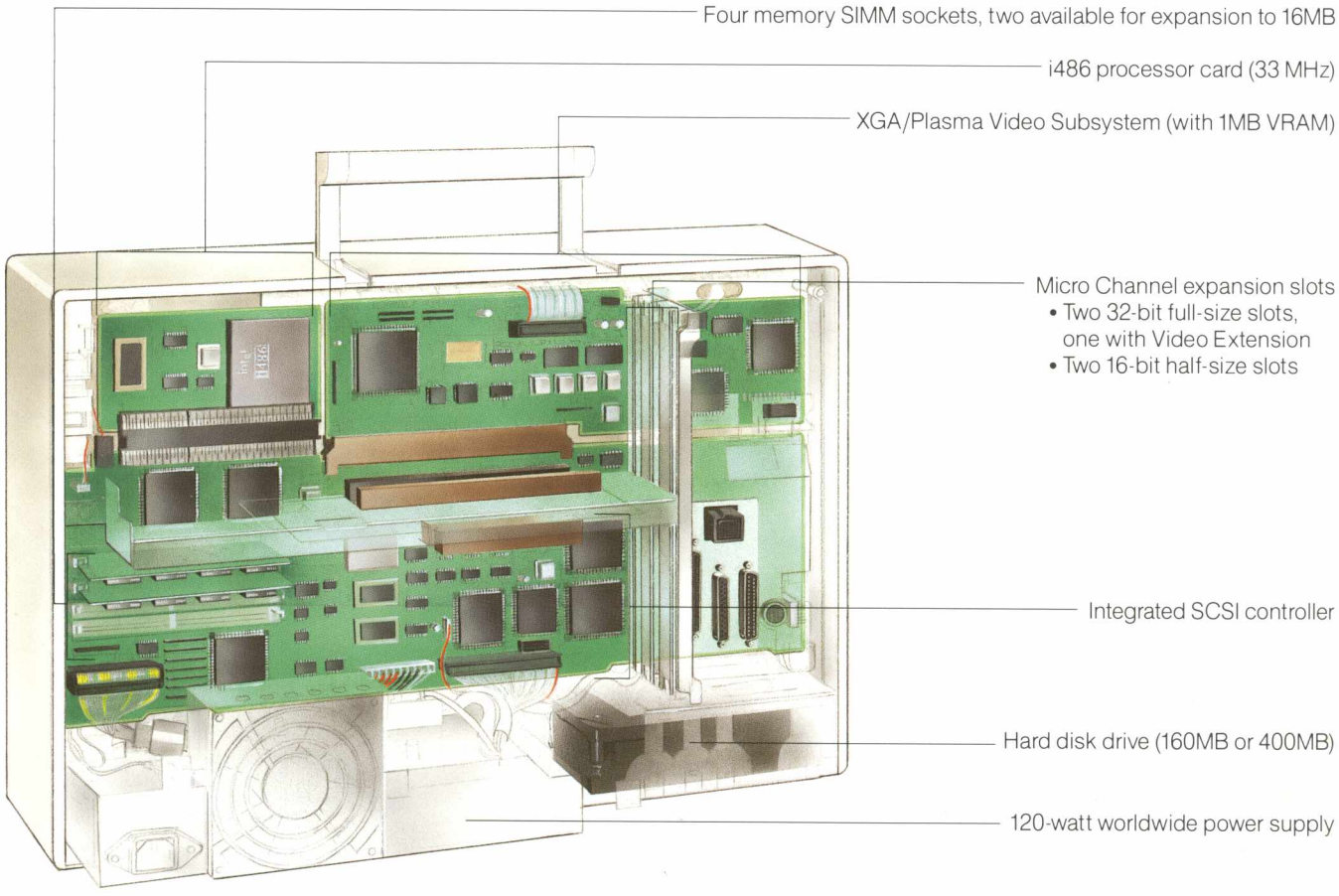

Micro Channel expansion slots
• Two 32-bit full-size slots, one with Video Extension
• Two 16-bit half-size slots
SCSI port (60-pin connector)
External storage device port
Parallel port
Serial port
External XGA port for PS/2 color or monochrome display
Pointing device port

Memory matrix table

Memory on system board*	All models
Standard memory	8MB (70ns)
Maximum memory	16MB
System board memory expansion kits	2MB: 70ns (6450902) 4MB: 70ns (6450128)
Number of memory kits that can be added on system board	2
Memory configurations possible on system board	8MB, 10MB, 12MB, 14MB and 16MB

**Memory can also be added by installing the 2-8MB Memory Expansion Option (6450605) in one of the P75's full-size 32-bit expansion slots.*

Feature	Benefit
33 MHz, i486 microprocessor	• Includes built-in 8KB memory cache and floating-point processing unit • Delivers impressive speed and power • Completes intensive business and technical computations quickly • Provides more functions in fewer components for increased reliability and room for growth
Built-in SCSI busmaster controller	• Lets you add up to six external SCSI devices without adding an adapter or using an expansion slot • Supports IBM and non-IBM devices that adhere to the SCSI-1 standard
Four available expansion slots	• Make it easy to add more functions to accommodate a variety of needs—including host communication, networking and special I/O device support
Built-in XGA graphics	• Provide improved performance for VGA applications on the P75's integrated plasma screen • Support 1,024 x 768 resolution for attached 8514 and 8515 Color Displays; provide up to 256 colors, too
8MB, 70ns memory, expandable to 16MB on the planar	• Gives you plenty of speed and workspace • Lets you run multiple applications and work with large amounts of data, making the P75 ideal for OS/2® and AIX® applications[1] • Supports 16MB memory without using an expansion slot
Internal fixed disk drives	• Allow you to choose between 160MB or 400MB of high-performance SCSI fixed disk storage • Give you faster, more convenient access to programs and data • Reduce storage and retrieval time for large databases and network services
Portability	• Enables you to run compute-intensive applications in any location where AC power is available • Gives you the flexibility to transport your LAN server or technical workstation from site to site


Four memory SIMM sockets, two available for expansion to 16MB
i486 processor card (33 MHz)
XGA/Plasma Video Subsystem (with 1MB VRAM)
Micro Channel expansion slots
• Two 32-bit full-size slots, one with Video Extension
• Two 16-bit half-size slots
Integrated SCSI controller
Hard disk drive (160MB or 400MB)
120-watt worldwide power supply

Why PS/2?

Here are some of the reasons why PS/2 stands out as the best solution for your business needs.

Technological leadership through Micro Channel architecture, integrated construction and advanced design (by combining Very Large Scale Integration and Surface Mount Technology), and SCSI support for large data storage.

Extensive communications capabilities—through a wide range of connectivity options—provide concurrent support for intelligent communications adapters and co-processors, thanks to Micro Channel architecture.

Compatibility and expandability to protect your investment since the PS/2s you have today work with existing products and programs and with those you'll need tomorrow.

Service and support that provide you with everything from fast parts delivery to on-site services to system planning to 24-hour phone support—all at a competitive price.

Business Partners who enhance PS/2 capabilities by helping customers choose, customize and configure hardware and software to meet a range of needs.

Quality and reliability that ensure PS/2s are built to perform smoothly and dependably year after year.

IBM Personal System/2 Model P75 486 at a glance

Machine numbers	8573-161	8573-401
Microprocessor		
Standard	80486	80486
Clock speed	33 MHz	33 MHz
Wait states	0	0
Memory cache	8KB	8KB
Other functions	Internal floating-point processing unit	
Bus architecture	Micro Channel	Micro Channel
Data path	32-bit	32-bit
Memory (RAM)		
Standard	8MB (70ns)	8MB (70ns)
Maximum on system board	16MB	16MB
System maximum	16MB	16MB
Integrated display	16-gray-shade gas plasma; high contrast ratio; dark background	
Integrated functions	Extended Graphics Array (XGA) with 1MB video memory, display port, serial port, parallel port, pointing device port, diskette controller, SCSI controller with SCSI port, external storage device port	
Available expansion slots	Two full-size 32-bit, two half-size 16-bit	Two full-size 32-bit, two half-size 16-bit
Diskette storage (internal)		
Standard (3.5-inch)	1.44MB	1.44MB
Diskette storage (external)		
Optional (5.25-inch)	360KB or 1.2MB	360KB or 1.2MB
Fixed disk storage		
Standard	160MB (16ms)	400MB (11.5ms)
Display modes		
Integrated plasma display	VGA, EGA, CGA, MCGA compatibility, including 640 x 480 pels x 16 gray shades	
External displays	XGA (includes all VGA modes) 640 x 480 x 256 colors/64 gray shades; 1,024 x 768 x 256 colors/64 gray shades	
Supported displays	IBM Personal System/2 Color Displays 8512, 8513, 8514 and 8515; IBM Personal System/2 Monochrome Displays 8503, 8506,[5] 8507 and 8508[5]	
Supported printers/ plotters	IBM Proprinter™ family, IBM LaserPrinter family, IBM ExecJet,™ IBM Quietwriter® III, IBM Pageprinter 3812/3816, IBM Quickwriter,® IBM 618X and 7372 Color Plotters	
Keyboard	101 keys, including 12 function keys, 3 lighted mode indicators; 14-inch coiled cable with optional 10-foot extension	
Power supply	120-watt worldwide, autosensing and switching	
Operating systems	DOS 3.3 or higher, IBM Operating System/2® Standard or Extended Edition 1.2 or 1.3, AIX Personal System/2[1]	
Size	Approx. 12.1"H x 18.3" W x 6.1"D (306mm x 465mm x 156mm); 22.1 lbs. (10 kg)	
Warranty	One-year limited warranty	

®IBM, Personal System/2, PS/2, Micro Channel, OS/2, AIX, Quietwriter, Quickwriter and Operating System/2 are registered trademarks of International Business Machines Corporation.

™System/36, System/38, System/370, Screen Reader, Proprinter and ExecJet are trademarks of International Business Machines Corporation. i486 is a trademark of Intel Corporation.

[1]IBM intends to provide P75 486 support in a future release of AIX PS/2.

[2]The options listed may require other features for the desired function or for installation. Some configuration limitations may apply.

[3]Supported only as an external SCSI device installed in a PS/2 External Enclosure for SCSI devices.

[4]There is more than one part number for this type of option, depending on the amount of on-card memory and other functions desired.

[5]Supported via the PS/2 Image Adapter/A.

©IBM Corporation 1990

International Business Machines Corporation
US Marketing & Services
Department ZW1
1133 Westchester Avenue
White Plains, NY 10604

Printed in the United States of America
11-90

All Rights Reserved

References in this publication to IBM products or services do not imply that IBM intends to make them available outside the United States.

G221-3047-00